Index of Claims

Application/Control No.	Applicant(s)/Patent under Reexamination
10/601,064	BAYDO ET AL.
Examiner	Art Unit

Rejected - (Thro

- (Through numeral)
Cancelled

Restricted

Claim

Non-Elected
I Interference

C. SAYALA

Date

A Appeal
O Objected

1761

Claim												
1	Cla	aim	Ц.	_			Dat	е		_		
2	Final	Original	70/1/2									
2	_	1	1	_	一	├─	\vdash	╁─	╁	-	一	1
4	_	2	† 			_	一	_		 	┢┈	1
4		3	\top		T					┢	T	1
6		4	\prod								1	1
7		5	Ш									1
8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	6	Ш						1]
9 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		7	Ш		L.				_]
10	<u> </u>		Ш		_		_	_	┞.	<u> </u>	_	
12	<u> </u>	9	+H		\vdash	_	_	_	_			ļ
12	-	10	Н		-		<u> </u>	-	ــــ		<u> </u>	ĺ
13		12	Н		<u> </u>		⊢	<u> </u>	├		-	-
15		13	Н		\vdash		H	⊢	┢	-	H	ł
15	-	14	+/	_	\vdash			├-	┝			1
16 17 18 19 10 10 10 10 10 10 10	_	15	H	_	Н		-	\vdash	-		├	
18		16	#					\vdash	 	\vdash	-	
18		17	Π	_		_			T	_		
19		18	П				_					
20 21 22 23 24 25 26 27 28 29 29 20 20 20 20 20 20		19										
22		20										
23		21	Ш									
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		22	Ш									
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		23	11.1						<u> </u>			
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		24	Ш								Щ	
27		25	H	_		_						
28 29 30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		26	H				_				_	
29 30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		28	H		\dashv				<u> </u>	Н		:
30 31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		29	Н	\dashv		\dashv	-		_		-	
31 32 33 34 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		30	H	\neg		-	\dashv		\vdash			
32 33 34 34 35 35 36 37 38 39 40 40 41 42 N 42 N 443 44 44 44 44 44 44 44 44 44 44 44 44		31	╫		\dashv		_		 	-	_	
33 34 35 35 36 37 38 39 40 41 √ 42 N 44 44 44 44 44 44		32	Ш	\neg	\dashv	_					_	
34 35 36 37 38 39 40 41 √ 42 N 43 44 44 44 44 44 44		33			寸				_			
36 37 38 39 40 41 42 N 43 44 44 44 44 44 44		34								\Box		
38 39 40 V 41 V 42 N 43 44		35										
38 39 40 V 41 V 42 N 43 44		36	Ш	\perp		\Box						
39 V V V V V V V V V V V V V V V V V V V		37	Ш	_	_	_	_				_]	
40 V 41 V 42 N 43 4		38	H	4	_	4	_	_	_	_	4	
41 V 42 N 43 4			//	-	-		4	_	_	\dashv	_	-
42 N 43 44 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		40		-		-	\dashv	-			-	}
43 , 44	\dashv		-	\dashv	\dashv	-	\dashv	-	-		-	ŀ
44		43	 	\dashv	+	\dashv	\dashv	-	\dashv		\dashv	}
	\neg	44	H	+	\dashv	\dashv	-		\dashv	+	\dashv	ł
45		45	+	\dashv	-	\dashv	\dashv			\dashv	ᅱ	ł
46		46	7	\dashv	7	7	7			\neg	\dashv	ŀ
47		47		╗	_					\neg	\neg	ı
48		48	\sqrt{I}								╛	1
49 V			۷	\prod	\bot	\Box	Ţ	\Box				
50 N		50	N								\Box	

-	CIO	7	1	_				υa	ie_			
i	Final	Original		10/11								
一		51	ħ	N	 	\dagger	†-	+	+	+	+-	╁
⊢		51 52	ť	N V	├	\vdash	╁	+-	┪—	┼	+	┼
⊢		52	╄	<u>v</u>	<u> </u>	┼	+	4	╀	-	₩	-
L		53	╀	1	L	┞.	_	<u> </u>	$oldsymbol{ol}}}}}}}}}}}}}}}}}$	_	_	
L		54		L						L		1
		54 55	ı	П				Γ		Г		Τ
		56	Γ	Г		Π	T					Г
		57	T			1	T	T-	T	1		_
Г		58	T	Г	_	1	\vdash		1	1	1	t
<u> </u>		59	t	✝	┝	一	╁	+	+	╆	╁	H
⊢		60	╁	H	⊢	╁	╫	╫	⊢	+	╁	┼
╌		61	╀	Н	┝	┼	╁	+-	+-	╀╌	₩	┾-
-		0	╄	Н	_	⊢	↓_	┼-	+	├_	┺	ļ.,
⊢		62	L	Н	_	 	_	↓_	1	 	_	_
ļ.		63	Ц	Ц		┖	_	_	_	_	_	
L		64	Ц	Ц								L
L		62 63 64 65	Ц							Ι'-		
		66	II							Г	П	
		66 67	17				T				Т	Г
Г		68	r				1	T	T	_	\vdash	┢
		69	t	\neg		Т		\vdash			 	\vdash
		69 70	t	7		\vdash	\vdash	\vdash	\vdash	 	┢	-
\vdash		71	╫	┪	-	-	\vdash	+-	1	-	┢	-
┢		72	1	┪			┢	\vdash	-	┢	\vdash	⊢
<u> </u>		73	lt	-1	_	-	╁	╁╌	\vdash	┝┈	-	\vdash
┢		72 73 74	Н			\vdash	+-	╁	┢	╁	-	⊢
H	_	75	Н	H		\vdash	-	1	╁╾	\vdash	├	
\vdash		75 76	Н	Н	_	_		<u> </u>	\vdash	 		_
F		77	Н	H	_	\vdash	\vdash	<u> </u>	t	Ι-	\vdash	├-
T		78	Н				\vdash	 		╁╾		\vdash
	\neg	78 79	Н	H		-	┢		╁	\vdash	\vdash	-
┢	-	80	Н	Н			-	 	╁	-	┢	-
\vdash		81	Н	Н	_	-	⊢	├	⊢	-	\vdash	┝╌
\vdash		82	Н	'	-	_	├—	⊢	┝╌	-	_	
⊢		83	H	Н			-	⊢	├-	 	<u> </u>	
\vdash	-	03	\ \	H			-	┝	<u> </u>		L	
\vdash		84	Ľ	4		_	-	┞	<u> </u>	_		
-	_	85	L	4		_	<u> </u>	L	_	<u> </u>		_
\vdash	_	86	_	4			L.		_	_	<u> </u>	
\vdash		87	_	4			_		L	L	L.	
L		88	_	4			_		_		_	
L	_4	89		4			<u> </u>	_	_			
L	_	90		4			L	_				
L	_	91		1								
L		92	_	┙								
L		93		_				L				
\perp		94		1				<u>L</u>				
\vdash		95	_	4	_		<u> </u>	<u> </u>		\Box		
\vdash		96		1	_		_	L_	Ш	Ш		
\vdash	_	97	_	4			<u> </u>	$oxed{oxed}$	L	Ш	\sqcup	
\vdash	_ .	98	_	4	_			Щ	Щ			
\vdash		99		1	_			L.	<u> </u>			
L	1	100	_	\perp	1			Ц		L.J		

CI	aim	Т				Dat	te	_		
	1		T	Т	Γ			T		
Final	Original				İ				1	
ιĒ	Ę,			1					1	
	101			П				Г	1	
	102						\perp			П
	101 102 103			_					L	
	104 105	L	<u>Ļ</u> .,	\perp	<u> </u>	\perp		\perp		
	105	<u> </u>	_	丄	_	_	1		_	Ш
	106	<u> </u>	<u> </u>	L	_	_	ļ.,		Ь.	Ш
<u> </u>	107 108	L	╙	 _	├-	↓_	_	_		Ш
	108	1	├-	↓	<u> </u>	↓_	↓_	╙	ــ	Ш
	109	┡	┞-	╀	┞-	₩	┼	 	<u> </u>	\sqcup
	110	⊢	┢	╀	├-	╄	-	╄	ऻ_	Ш
	110 111 112	├-	├	1	+-	╀	╀		-	Н
 	112	-	-	\vdash	1	\vdash	┼	1	├-	\vdash
	113 114 115	-	\vdash	\vdash	-	+	+	-	-	
-	115	┢	┢	⊢	⊢	╁	-	+-	⊬	\square
 	116	┝	╁	H	├	╁	╁	╁	-	Н
	117	\vdash	├-	╁	├	\vdash	⊬	\vdash	-	Н
-	116 117 118	├	⊢	├	\vdash	┼-	╁	 -	┝	\vdash
\vdash	110	-	⊢	┢	├	┝	\vdash	┝	⊢	\vdash
\vdash	120	┝	├	├	┝	╁	╁	-	⊢	\vdash
	119 120 121 122 123 124 125 126 127 128 129 130 131	┢	┢┈	┢─	\vdash	┼	1	-	┢	\vdash
\vdash	122	\vdash	┢╌	╁	H	╁	\vdash	├-	\vdash	Н
	123	\vdash	\vdash	┢	\vdash	┢	 	-	\vdash	Н
	124	_	\vdash	├─	\vdash	┢	-	 	-	\vdash
	125	 		-	╁─	╁	╁	┢╌	\vdash	Н
	126		<u> </u>	H	-	\vdash	\vdash	<u> </u>	\vdash	
	127		┢			\vdash	 	一	H	\vdash
	128	T	Т				-	-	\vdash	\dashv
	129		Г				Т			\neg
	130									
	131									
	132									
	133									
	133 134		L							
	135			<u> </u>		_	_			
	136 137 138				_				Ш	Ш
	137	_	_	<u> </u>		L	_			Ц
	138			<u> </u>	_		_	\vdash	Щ	\sqcup
	139	_	H	<u> </u>	_	<u> </u>	 	Н	Н	4
	170		\vdash		-	<u> </u>	 -	\vdash	Ш	\dashv
	141 142		<u> </u>	\vdash		-	-	\vdash	$\vdash \vdash$	\dashv
	143	-	-	\vdash	-	-	\vdash	\vdash	$\vdash \vdash$	
	144			_		\vdash	_	-	$\vdash \vdash$	\dashv
	145	-		_			-	Н	$\vdash \dashv$	\dashv
	146			-		-	\vdash	\vdash	\vdash	\dashv
	147			_	_		-	\vdash	-1	\dashv
	148		\vdash					\vdash	\vdash	-
_	149			\vdash		Н	-	\vdash	\vdash	\dashv
	150	\dashv		\vdash		\dashv		\vdash	\neg	\dashv
	. 55									

Validated By CRFValidator v 1.0.3

Application No: 10583618 Version No: 2.0

Input Set:

Output Set:

Started: 2008-09-19 13:04:22.875

Finished: 2008-09-19 13:04:23.444

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 569 ms

Total Warnings: 2

Total Errors: 0

No. of SeqIDs Defined: 40

Actual SeqID Count: 40

Error code Error Description

W 402 Undefined organism found in <213> in SEQ ID (3)

W 402 Undefined organism found in <213> in SEQ ID (4)

SEQUENCE LISTING

<110>	LAY LINE GENOMICS S.P.A.
	S.I.S.S.A.
	Cattaneo, Antonino
	Covaceuszach, Sonia
	Lamba, Doriano
<120>	Method for the humanization of antibodies and humanized antibodies thereby obtained
<130>	PCT 84150
	10583618
<141>	2008-09-19
<150>	DCT /TT2004/000722
	PCT/IT2004/000722
<151>	2004-12-23
<150>	RM2003000601
<151>	2003-12-24
<160>	40
<170>	PatentIn version 3.1
<210>	1
<211>	369
<212>	DNA
<213>	Mus musculus

<400> 1 caggtgcagc tggtggaatc aggacctggt ctggtgcagc cctcacagac cctgtccctc	60
acctgcactg tctctgggtt ctcactaacc aacaacaatg tgaactgggt tcgacaggct	120
acaggaagag gtctggagtg gagtggagga gtctgggctg gtggagccac agattacaat	180
tcagctctca aatcccgact gctgaccatc actagggaca cctccaagag ccaagttttc	240
ttaaaaaatgc acatgctgca atctgaagac acagccactt actactgtgc cagagacggg	300
ggctatagca gctctaccct ctatgctatg gatgcctggg gtcaaggaac ttcggtcacc	360
gtctcctca	369
<210> 2	
<211> 122	
<212> PRT	
<213> Mus musculus	
<400> 2	
Gln Val Gln Leu Lys Glu Ser Gly Pro Gly Leu Val Gln Pro Ser Gln 1 5 10 15	
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Phe Ser Leu Thr Asn Asn 20 25 30	
Asn Val Asn Trp Val Arg Gln Ala Thr Gly Arg Gly Leu Glu Trp Met	
35 40 45	
Gly Gly Val Trp Ala Gly Gly Ala Thr Asp Tyr Asn Ser Ala Leu Lys 50 55 60	
Ser Arg Leu Thr Ile Thr Arg Asp Thr Ser Lys Ser Gln Val Phe Leu 65 70 75 80	
Lys Met His Ser Leu Gln Ser Glu Asp Thr Ala Thr Tyr Tyr Cys Ala 85 90 95	
Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp 100 105 110	

120 115

<210> 3

<211> 321

<212> DNA

<400> 3

<213> Rattus sp.

gacatccaga tgacccagtc tccagcttcc ctgtctgcat ctctgggaga aactgtcacc atcgaatgtc gagcaagtga ggacatttat aatgctttag catggtatca gcagaagcca gggaaatctc ctcagctcct gatctataat acagatacct tgcatactgg ggtcccatca 180

cgattcagtg gcagtggatc tggtacacaa tattctctca agataaacag cctgcaatct

gaagatgteg caagttattt etgteageae tattteeatt ateeteggae gtteggtgga 300

120

240

321 gggaccaagc tggagatcaa a

<210> 4

<211> 107

<212> PRT

<213> Rattus sp.

<400> 4

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Leu Gly 10

Glu Thr Val Thr Ile Glu Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala 20 25

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ser Pro Gln Leu Leu Ile 35 40 45

Tyr Asn Thr Asp Thr Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly 55

Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Ser 75 65 70 80

Glu	Asp	Val	Ala	Ser 85	Tyr	Phe	Суз	Gln	His 90	Tyr	Phe	His	Tyr	Pro 95	Arg		
Thr	Phe	Gly	Gly 100	Gly	Thr	Lys	Leu	Glu 105	Leu	Lys							
<210	>	5															
<211	,>	31															
<212	> 1	ANC															
<213	i>]	Homo	sapi	ens													
<400	>	5															
acag	gcg	cgc a	ctcc	gago	jt go	cagct	ggtg	gaa	atcaç	ggag	gtgg	gtctc	ıgt d	gcago	ccgg	_a	60
gggt	ccci	tga g	gaata	cagct	g c												81
<210	>	6															
<211	>	31															
<212	>]	АИС															
<213	;>]	Homo	sapi	ens													
<400		6	atas	12200	1G 36	x++ a :	agat t	at t	atta	rat t	agto	, 20, 2, 2	naa 4	72020	raa sa	r.c.	60
		gcc t				gece	acacc	. gcc	geeg	ggcc	agec	gagac	ige (cagag	gcag		
gcag	ctg	agg c	cgcaç	ggac	c c												81
<210	> '	7															
<211	,>	31															
<212	> 1	АИС															
<213	i>]	Homo	sapi	ens													
<400																	
aact	ggg	ttc ç	Jacaç	gete	c aç	ggaaa	aaggt	cto	ggagt	ggg	tggg	gagga	ıgt (ctggg	ıctgg	ŗt	60

ggagccacag attacaattc a

81

```
<210> 8
<211> 84
<212> DNA
<213> Homo sapiens
<400> 8
catttgtaag taagctgtgt tcttggagtt gtcgcgactg atggtgaatc gggatttgag
                                                                     60
agctgaattg taatctgtgg ctcc
                                                                     84
<210> 9
<211> 84
<212> DNA
<213> Homo sapiens
<400> 9
aagaacacag cttacttaca aatgaacagt ctgcgcgctg aagacacagc cgtttactac
                                                                     60
tgtgccagag acgggggcta tagc
                                                                     84
<210> 10
<211> 81
<212> DNA
<213> Homo sapiens
<400> 10
tgaggagacg gtgaccagag ttccttgacc ccaggcatcc atagcataga gggtagagct
                                                                     60
                                                                     81
gctatagccc ccgtctctgg c
<210> 11
<211> 78
<212> DNA
<213> Homo sapiens
```

<400>	11						
		actccgacat	ccagatgacc	cagtctccat	cttccctgtc	tgcatctgtg	60
ggagaco	cgcg	tcaccatc					78
<21.0×	1.0						
<210>	12						
<211>	78						
<212>	DNA						
<213>	Homo	sapiens					
<400>	12						
		tgataccatg	ctaaaccatt	ataaatotoo	tcacttgctc	gacatgtgat	60
cggcccc	rege	egacaccacg	ccaaagcacc	acaaacgccc	ccaccigcic	gacacgcgac	00
ggtgaco	gegg	tctcccac					78
<210>	13						
<211>	78						
<212>	DNA						
\Z1Z/	DIVA						
<213>	Homo	sapiens					
<400>	13						
gcatggt	atc	agcagaagcc	agggaaagct	cctaagctcc	tgatctataa	tacagatacc	60
ttacata	acad	gggtccca					78
eegeace	acag	gggeeea					, 0
<210>	14						
<211>	78						
<212>	DNA						
<213>	Ното	sapiens					
-2 + 3/	1101110	Laptens					
<400>	14						
caggcto	gctt	atcgtgagag	tatagtctgt	accagatcca	ctgccactga	atcgtgatgg	60
gacccct	gta	tgcaaggt					78

<212>	DNA															
<213>	Homo	sapi	Lens													
<400>	15															
actctca	acga t	aago	cagco	ct go	caaco	ctgaa	a gat	ttc	gcaa	ctta	attt	ctg t	tcago	cacta	at	60
ttccatt	tatc o	ctego	J													75
<210>	16															
<211>	75															
<212>	DNA															
<213>	Homo	sapi	lens													
<400>	16															
caatcta		tcta	actca	ac gt	ttga	atcto	c cad	cctt	ggtc	cctt	gac	cga a	acgto	cga	gg	60
ataatg	gaaa t	agto	J													75
<210>	17															
<211>	122															
<212>	PRT															
<213>	Homo	sapi	iens													
		-														
<400>	17															
Glu Vai	l Gln	Leu	Val 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Val	Gln	Pro	Gly 15	Gly		
Ser Le	u Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Ser	Leu	Thr	Asn	Asn		
		20					25					30				
Asn Val	l Asn	Trp	Val	Ara	Gln	Ala	Pro	Glv	Lvs	Glv	T.eu	Glu	Trn	Val		
	35	1		9		40	0	1	_10	1	45		1			
Gly Gly	y Val	Trp	Ala	Gly	Gly	Ala	Thr	Asp	Tyr	Asn	Ser	Ala	Leu	Lys		

<211> 75

Ser Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Ala Tyr Leu 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala

Arg Asp Gly Gly Tyr Ser Ser Ser Thr Leu Tyr Ala Met Asp Ala Trp
100 105 110

90

Gly Gln Gly Thr Leu Val Thr Val Ser Ser 115 120

<210> 18

<211> 107

<212> PRT

<213> Homo sapiens

<400> 18

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly $1 \ 5 \ 10 \ 15$

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asp Ile Tyr Asn Ala 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile 35 40 45

Tyr Asn Thr Asp Thr Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Phe Cys Gln His Tyr Phe His Tyr Pro Arg
85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 100 105 <210> 19

<211> 117

<212> PRT

<213> Homo sapiens

<400> 19

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Glu Tyr 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Gly Leu Ile Asp Pro Glu Gln Gly Asn Thr Ile Tyr Asp Pro Lys Phe 50 55

Gln Asp Arg Ala Thr Ile Ser Ala Asp Asn Ser Lys Asn Thr Ala Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Asp Thr Ala Ala Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Leu 100 105 110

Val Thr Val Ser Ser 115

<210> 20

<211> 107

<212> PRT

<213> Homo sapiens

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly 10 15 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Asp Ile Lys Ser Tyr 25 2.0 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Val Leu Ile 40 Tyr Tyr Ala Thr Ser Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Gly Glu Ser Pro Trp 85 90 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys 105 100 <210> 21 <211> 369 <212> DNA <213> Mus musculus <400> 21 gaggtgaagc tggtggagtc tgggggaggt ttagtgcagc ctggagggtc cctgaaactc 60 tcctgtgcag cctctggatt cactttcagt acctatacca tgtcttgggc tcgccagaca 120 180 ccagagaaga ggctggagtg ggtcgcatac attagtaaag gtggtggtag tacctactat ccagacactg taaagggccg attcaccatc tccagggaca atgcgaagaa caccctgtac ctgcaaatga gcagtctgaa gtctgaggac acggccttgt attactgtgc aagaggggct 300 atgtatggta acgattttt ctatcctatg gactactggg gtcaaggaac ctcagtcacc 360 gtctcctca 369

<210> 22

<211> 124

```
<212> PRT
<213> Mus musculus
```

<400> 22

Glu Val Lys Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr 25 20

Thr Met Ser Trp Ala Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val 40

Ala Tyr Ile Ser Lys Gly Gly Ser Thr Tyr Tyr Pro Asp Thr Val 50 55

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr 70 75 65

Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Leu Tyr Tyr Cys 85 90 95

Ala Arg Gly Ala Met Phe Gly Asn Asp Phe Phe Pro Met Asp Arg 100 105

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Ala 115 120

<210> 23

<211> 318

<212> DNA

<213> Mus musculus

gacattgttc tctcccagtc tccagcaatc atgtctgcat ctctagggga ggagatcacc 60 ctaacctgca gtgccagctt gagtgtaagt tacatgcact ggtaccagca gaagtcaggc 120 acttctccca agctcttgat ttatactaca tccaacctgg cttctggagt cccttctcgc 180

ttcagtggca gtgggtctgg gaccttttat tctctcacaa tcagtagtgt ggaggctgaa	240
gatgctgccg attattactg ccatcagtgg agtagttatc catggacgtt cggtggaggc	300
accaagctgg aaatcaaa	318
<210> 24	
<211> 106	
<212> PRT	
<213> Mus musculus	
<400> 24	
Asp Ile Val Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly 1 5 10 15	
Glu Glu Val Thr Leu Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met 20 25 30	
His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Leu Leu Ile Tyr 35 40 45	
Thr Thr Ser Asn Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly Ser 50 55 60	
Gly Ser Gly Thr Phe Tyr Ser Leu Thr Ile Ser Ser Val Glu Ala Glu 65 70 75 80	
Asp Ala Ala Asp Tyr Tyr Cys His Gln Trp Ser Ser Tyr Pro Trp Thr 85 90 95	
Phe Gly Gly Thr Lys Leu Glu Ile Lys 100 105	
<210> 25	
<211> 81	
<212> DNA	

<213> Homo sapiens

<400>	25						
acaggcg	cgc	actccgaggt	gcagctgctg	gagtctgggg	gaggtttagt	gcagcctgga	60
gggtccc	tgc	gecteteetg	t				81
<210>	26						
<211>	81						
<212>	DNA						
<213>	Homo	sapiens					
<400>	26						
ccctggg	gcc	tggcgagccc	agctcatggt	ataggtactg	aaagtgaatc	cagaggctgc	60
acaggag	agg	cgcagggacc	С				81
<210>	27						
<211>	81						
<212>	DNA						
<213>	Homo	sapiens					
<400>	27						
tgggctc	gcc	aggccccagg	gaaggggctg	gagtgggtcg	catacattag	taaaggtggt	60
ggtagta	cct	actatccaga	С				81
<210>	28						
<211>	81						
<212>	DNA						
<213>	Homo	sapiens					
<400>	28						
ttgcagg	tac	agggtgttct	tcgagttgtc	cctggagatg	gtgaatcggc	cctttacagt	60
gtctgga	tag	taggtactac	С				81

	61	
<212>	DNA	
<213>	Homo sapiens	
<400>	29 accc tgtacctgca aatgaacagt ctgcgggctg aggacagcgc cgtctattac	60
	agag gggctatgtt t	81
3 3		
<210>	30	
<211>	81	
<212>	DNA	
<213>	Homo sapiens	
<400>	30	
	ggtg accagggttc cttgacccca gcggtccata ggaaagaaaa aatcgttacc	60
2222t		
adaCat	agec eetettgeac a	81
<210>	31	81
		81
<210>	31	81
<210> <211> <212>	3178	81
<210> <211> <212>	31 78 DNA	81
<210> <211> <212> <213> <400>	31 78 DNA Homo sapiens	81
<210> <211> <212> <213> <400>	31 78 DNA Homo sapiens	60
<210> <211> <212> <213> <400> acagge	31 78 DNA Homo sapiens	
<210> <211> <212> <213> <400> acagge	31 78 DNA Homo sapiens 31 gtgc actecgacat tgtteteace eagteteeat ceageetgte tgegtetgte	60
<210> <211> <212> <213> <400> acaggeogggacoggggacoggggacogg	31 78 DNA Homo sapiens 31 gtgc actccgacat tgttctcacc cagtctccat ccagcctgtc tgcgtctgtc	60
<210> <211> <212> <213> <400> acaggco ggggaco <210>	31 78 DNA Homo sapiens 31 gtgc actccgacat tgttctcacc cagtctccat ccagcctgtc tgcgtctgtc eggg tcaccatt	60

gcctggd	cttc tgctggta	cc agtgcatgta	actcacacta	gagctggcgc	tgcaggtaat	60
ggtgacccgg tccccgac 78						
<210>	33					
<211>	78					
<212>	DNA					
<213>	Homo sapiens					
<400>	33					
tggtaco	cagc agaagcca	gg caaggctccc	aagctcctga	tttatactac	atccaacctg	60
gcttctggag tcccttct 78						
<210>	34					
<211>	75					
<212>	DNA					
<213>	Homo sapiens					
<400>	34					
cagacta	actg attgtgag	gg tataatcggt	cccagaccca	ctgccgctga	agcgagaagg	60
gactccagaa gccag 75						
<210>	35					
<211>	78					
<212>	DNA					
<213>	Homo sapiens					
<400>	35	at agaggetass	gatttgggg	agt attact =	coat cast sc	60
accetea	acaa teagtagt	ct gcagcctgaa	garrregeca	colattactg	ccarcagegg	60
agtagttatc catggacg 78						
<210>	36					
<211>	75					

<212> DNA

<213> Homo sapiens

<400> 36

taagttagat ctattctact cacgttttat ttccaccttg gtgcctccac cgaacgtcca 60

tggataacta ctcca 75

<210> 37

<211> 124

<212> PRT

<213> Homo sapiens

<400> 37

Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln Pro Gly Gly 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr 20 25 30

Thr Met Ser Trp Ala Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Ala Tyr Ile Ser Lys Gly Gly Gly Ser Thr Tyr Tyr Pro Asp Thr Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Ser Ala Val Tyr Tyr Cys 85 90 95

Ala Arg Gly Ala Met Phe Gly Asn Asp Phe Phe Phe Pro Met Asp Arg 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala 115 120

<211> 106

<212> PRT

<213> Homo sapiens

<400> 38

Asp Ile Val Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly 10